Support-Vector Machine

Problem

For each dataset find the best kernel for it. You can use any metric you want. Also for each two-dimensional dataset and kernel, draw how the SVM classifier classifies the entire space (see Example).

Use this datasets to test your algorithm.

File Format

There are two types of files **.csv** and **.txt** both contains the same datasets.

_trian.txt file starts with two natural number on separated lines: **F** — number of features and **N** — number of objects in dataset. The **N** following lines contains description of objects (one object per line): **F**+1 numbers. **F** features of current object and its target value +1 or -1. **_test.txt** file contains 1024 objects with the similar format (without two numbers at the begin of file).

Example

